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Release of protein from highly cross-linked hydrogels of poly (ethylene glycol) diacrylate fabric by UV polymerization

MB Mellott, K Searcy, MV Pishko - Biomaterials, 2001 - Elsevier

... and colleagues developed PEG hydrogels formed through the photopolymerization of poly(ethylene glycol) diacrylate ... In this paper we describe the preparation of highly **crosslinked** hydrogels of PEG-DA containing a polyacrylate **crosslinking agent**, pentaerythritol triacrylate ...

Cited by 117 - [Related articles](#) - [BL Direct](#) - [All 8 versions](#)

Novel crosslinking methods to design hydrogels

WE Hennink, CF Van Nostrum - Advanced Drug Delivery Reviews, 2002 - Elsevier

... by the type of ester group in the crosslinks, the **crosslink** density of ... with adipic dihydrazide followed by **crosslinking** with a macromolecular crosslinker (poly(ethylene glycol)-propionaldehyde). ... by the concentration of the dissolved polymer and the amount of **crosslinking agent**. ...

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Preparation of crosslinked polystyrene beads including oligo (oxyethylene) chain as crosslink agent and their use as phase transfer catalyst

S Itsuno, I Moue, K Ito - Polymer Bulletin, 1989 - Springer

... in Williamson ether synthesis and indeed are more effective than poly(ethylene oxide) itself (3). ... are paralleled somewhat with the previous%~ described copolymers of styrene with ethylene **oxide**. ... a summary of references to phase transfer catalysis by polyethylene glycols and ...

Cited by 16 - [Related articles](#) - [All 3 versions](#)

Temperature sensitive gels as size selective absorbants

RFS Freitas, EL Cussler - Separation Science and Technology, 1987 - informaworld.com

... We have overcome this by synthesizing **crosslinked** polymer gels which can be ... using a Brice-Phoenix differential refractometer (polyethylene glycols, polyethylene oxide and ovalbumin ... Poly(N-isopropylacrylamide) gels with different amounts of **crosslinking** were synthesized ...

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Poly (ethylene glycol)-containing hydrogels in drug delivery

NA Peppas, KB Keys, M Torres-Lugo, AM ... - Journal of controlled ..., 1999 - Elsevier

... The radiation dose needed to **crosslink** PEG chains is dependent not only on ... swelling and release behavior were studied as functions of the **crosslinking** structure and ... 3. EW Merrill, Poly(ethylene **oxide**) star molecules: synthesis, characterization, and applications in medicine ...

Cited by 156 - [Related articles](#) - [All 9 versions](#)

Preparation of sterically stabilized human serum albumin nanospheres using a novel Dextranox MPEG crosslinking agent

W Lin, AGA Coombes, MC Garnett, MC Davies, ... - Pharmaceutical ..., 1994 - Springer

... to small polystyrene particles can form a steric polyethylene oxide (PEO) barrier ... a modified coacervation method and **crosslinking** with methyl polyethylene glycol substituted ... **Crosslinked** with Glutaraldehyde and- Dextranox-MPEG **Crosslinking Agent** Glutaraldehydea Dextranox ...

Cited by 24 - [Related articles](#) - [BL Direct](#) - [All 6 versions](#)

[CITATION] Nonpolysaccharide membranes for reverse osmosis: NS-100 membranes

LT Rozelle, JE Cadotte, KE ... - Reverse ..., 1977 - National Research Council Canada

[Cited by 36](#) - [Related articles](#)

A review of chitin and chitosan applications* 1

R Kumar, NV Majeti - *Reactive and functional polymers*, 2000 - Elsevier

... Chitin was pulverized and two parts by weight were added to 87 parts by weight of a solvent mixture containing 40% TCA, 40% chloral hydrate (US Department of Justice, Drug Enforcement **Agency**, class IV controlled substance), and 20 ... 5.3.3. Amine **oxide**/water system. ...

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Hydrogels for tissue engineering: scaffold design variables and applications

JL Drury, DJ Mooney - *Biomaterials*, 2003 - Elsevier

... Synthetic materials include **poly(ethylene oxide)** (PEO), poly(vinyl alcohol) (PVA), poly(acrylic acid) ... These properties in turn, determine gel formation dynamics, **crosslinking** density, and material ... PEO and the chemically similar **poly(ethylene glycol)** (PEG) are hydrophilic polymers ...

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Synthesis of Reversible Shell Cross-Linked Micelles for Controlled Release of Bioactive Agent:

Y Li, BS Lokitz, SP Armes, CL McCormick - *Macromolecules*, 2006 - ACS Publications

... Abstract: A **poly(ethylene oxide)** (PEO)-based macromolecular chain transfer **agent** (macro-CTA) was employed to ... Environment-Sensitive Stabilization of Core-Shell Structured Polyion Complex Micelle by Reversible **Cross-Linking** of the Core through Disulfide ...

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[Create email alert](#) [Resu](#)Temperature sensitive gels as extraction solvents

RFS Freitas, EL Cussler - Chemical Engineering Science, 1987 - Elsevier

... dextran Polystyrene latex 2,000,000 97 951 99 961 96 96t **Polyethylene glycol** 400 3400 ... efficiency for separating vitamin B-12 doubles as the percentage **crosslinking** increases from 1 ... results for the molecularly compact vitamin and the extended **poly- ethylene glycol** show that ...

[Cited by 215](#) - [Related articles](#) - [All 3 versions](#)Chemical modifications of proteins: A review

GE Means, RE Feeney - Journal of Food Biochemistry, 1998 - interscience.wiley.com

... **Crosslinking** is sometimes used to determine distances, and other kinds of spatial relationships, between the components of simple protein ... A large number of protein **cross-linking agents** have been described and many are available from commercial sources (eg, from Pierce ...

[Cited by 1274](#) - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)The conjugation of proteins with **polyethylene glycol** and other polymers:: Altering properties of proteins to enhance their therapeutic potential

NV Katre - Advanced Drug Delivery Reviews, 1993 - Elsevier

... of activated N-acryloxysuccinimide groups minimized the probability of **cross-linking** the protein ... (1987) Chemical modification of recombinant interleukin-2 by **polyethylene glycol** increases its ... Nitecki, DE (1987) A water-soluble monitorable peptide and protein **crosslinking agent**. ...

[Cited by 122](#) - [Related articles](#) - [All 3 versions](#)**Poly (ethylene glycol)**-containing hydrogels in drug delivery

NA Peppas, KB Keys, M Torres-Lugo, AM ... - Journal of controlled ... , 1999 - Elsevier

... The radiation dose needed to **crosslink** PEG chains is dependent not only ... Louis, MO) and **poly(ethylene glycol)** monomethacrylate containing PEG of molecular weight 1000 (Polysciences Inc ... were mixed in appropriate molar ratios and the **crosslinking agent**, tetraethylene **glycol** ...

[Cited by 156](#) - [Related articles](#) - [All 9 versions](#)Glucose-sensitivity of glucose oxidase-containing cationic copolymer hydrogels having **poly (ethylene glycol)** grafts

K Podual, FJ DoyleIII, NA Peppas - Journal of Controlled Release, 2000 - Elsevier

... such as polyacrylates [3], polymethacrylates [4], **polyethylene** [5], polypyrroles [6 ... by using diethylaminoethyl methacrylate (DEAEM, Aldrich), **poly(ethylene glycol)** monomethacrylate (PEGMA ... Polysciences, Warrington, PA, USA) and the **crosslinking agent** tetraethylene **glycol** ...

[Cited by 85](#) - [Related articles](#) - [All 6 versions](#)Interaction of **poly (ethylene oxide)** with solvents: 3. Synthesis and swelling in water of **crosslinked poly (ethylene glycol)** urethane networks

NB Graham, M Zulfikar - Polymer, 1989 - Elsevier

... changes the composition, reducing the weight and molar percentage of **polyethylene** oxide ... This, as well as the degree of **crosslinking**, must affect the ultimate attainable ... the dramatic decrease in aqueous swelling with increasing temperature of a **poly(ethylene glycol)** hydrogel of ...

[Cited by 28](#) - [Related articles](#) - [All 3 versions](#)Controlled release by using poly (methacrylic acid-g-ethylene **glycol**) hydrogels

NA Peppas, J Klier - Journal of Controlled Release, 1991 - Elsevier

... Bulk polymerization took place in **polyethylene** vials under nitrogen in a water bath at ... networks were synthesized by the free-radical copolymerization and **crosslinking** reaction. ... from monomer stoichiometry) and found ratio of carbonyl (from **poly(ethylene glycol methacrylate)** ...

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Preparation of sub-micrometer porous membrane from chitosan/**polyethylene glycol** semi-IPN

M Zeng, Z Fang - Journal of membrane science, 2004 - Elsevier

... **Crosslinked** chitosan (CS) membrane with sub-micrometer porous structure was prepared by extraction of **polyethylene glycol** (PEG) from CS/PEG semi-IPN membrane. The content of PEG and the **crosslinking agent** has significant effects on the pore structure, swellability, and ...

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Networks for recognition of biomolecules: Molecular imprinting and micropatterning **poly (ethylene glycol)**-containing films

ME Byrne, E Oral, JZ Hill, NA ... - Polymers for Advanced ..., 2002 - interscience.wiley.com

... polymerization of methacrylic acid in the presence of **polyethylene glycol** (PEG) derivatized ... **Poly-(ethylene glycol)** 200 methacrylate (PEG200MA), **poly(ethylene glycol)** 200 dimethacrylate (PEG200DMA), and ... where the average molecular weight of the ethylene **glycol** chain is ...

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Hydrogels for tissue engineering: scaffold design variables and applications

JL Drury, DJ Mooney - Biomaterials, 2003 - Elsevier

... These properties in turn, determine gel formation dynamics, **crosslinking** density, and material mechanical ... PEO and the chemically similar **poly(ethylene glycol)** (PEG) are hydrophilic polymers (Figs. ... PEO or PEG is mixed with the appropriate photoinitiator and **crosslinked** via UV ...

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